BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division.

DASARAHALLI DIVISION

MEASUREMENTS

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Measurement recorded on:

Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 143/ Item No. 19.1/ PWD SR 2018-19)								
For Desilt								
Mallikarjuna Temple Road								
	2	15.00	0.60		0.60	0.50	9.00	
	2	15.00	0.60		0.60	0.50	9.00	
	2	6.00	0.60		0.60	0.50	3.60	
	2	5.00	0.60		0.60	0.50	3.00	
	2	7.00	0.60		0.60	0.50	4.20	
	2	15.00	0.60		0.60	0.50	9.00	
	2	15.00	0.60		0.60	0.50	9.00	
	2	15.00	0.60		0.60	0.50	9.00	
	2	14.00	0.60		0.60	0.50	8.40	
	2	15.00	0.60		0.60	0.50	9.00	
	2	15.00	0.60		0.60	0.50	9.00	
	2	9.30	0.60		0.60	0.50	5.58	
For CC Road								
Mallikarjuna Swamy Temple Road	2	14.30	1.20		1.20	0.30	10.30	
	2	15.00	1.20		1.20	0.30	10.80	
	2	15.00	1.20		1.20	0.30	10.80	
	2	6.00	1.20		1.20	0.30	4.32	
	2	5.00	1.20		1.20	0.30	3.60	
	2	7.00	1.20		1.20	0.30	5.04	
	2	15.00	1.20		1.20	0.30	10.80	
	2	15.00	1.20		1.20	0.30	10.80	
	2	15.00	1.20		1.20	0.30	10.80	
	2	14.00	1.00		1.00	0.30	8.40	
	2	15.00	0.80		0.80	0.30	7.20	
	2	15.00	0.80		0.80	0.30	7.20	
	2	9.30	0.80		0.80	0.30	4.46	
Parallel road to Shreeshakthi	1	19.60	1.50	4.10	2.80	0.30	16.46	
1st Cross Road	2	15.00	0.80		0.80	0.30	7.20	
	2	15.00	0.80		0.80	0.30	7.20	
	2	15.00	0.80		0.80	0.30	7.20	
	2	15.00	0.80		0.80	0.30	7.20	
	2	5.90	0.80		0.80	0.30	2.83	
						Present Qty	**240.40**	**Cum**
						Quantity Limited for	**219.42**	**Cum**

06/07/2022

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work:Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

As measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty .	Unit
3	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)						
	Mallikarjuna Swamy Temple Road						
	LHS						
		1	15.00		0.90	13.50	
		1	3.40		0.90	3.06	
		1	15.00		0.90	13.50	
		1	15.00		0.90	13.50	
		1	15.00		0.90	13.50	
		1	14.00		0.90	12.60	
		1	15.00		0.90	13.50	
	RHS						
		1	15.00		0.90	13.50	
		1	3.40		0.90	3.06	
		1	15.00		0.90	13.50	
		1	15.00		0.90	13.50	
		1	15.00		0.90	13.50	
		1	14.00		0.90	12.60	
		1	15.00		0.90	13.50	
					Present Qty	**166.32**	**Sqm**

08/03/2020

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work:Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Measurement recorded on:

Sl No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 400 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
	Coping For Drain								
	Mallikarjuna Swamy Temple Road								
	LHS	2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	14.00	0.15	0.15		0.15	0.63	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	7.25	0.15	0.15		0.15	0.33	
	RHS								
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	14.00	0.15	0.15		0.15	0.63	
		2	15.00	0.15	0.15		0.15	0.68	
		2	15.00	0.15	0.15		0.15	0.68	
		2	7.25	0.15	0.15		0.15	0.33	
							Present Qty	**11.30**	**Cum**

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Detailed measurement recorded on:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)						
Mallikarjuna Swamy Temple Road						
LHS	1	15.00	0.90		13.50	
	1	15.00	0.90		13.50	
RHS						
	1	15.00	0.90		13.50	
	1	15.00	0.90		13.50	
	1	15.00	0.90		13.50	
	1	4.55	0.90		4.10	
				Present Qty	**71.60**	**Sqm**

13/11/2020

Assistant Engineer
Ward No.13

13/11

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Page measurement recorded on:

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No-140 Item no - 18.47 of KPWD SR 2018-19)								
	For CC Road								
	Mallikarjuna Swamy Temple Road	2	14.30	1.20		1.20	0.15	5.15	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	6.00	1.20		1.20	0.15	2.16	
		2	5.00	1.20		1.20	0.15	1.80	
		2	7.00	1.20		1.20	0.15	2.52	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	14.00	1.00		1.00	0.15	4.20	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	9.30	0.80		0.80	0.15	2.23	
	1st Cross Road								
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	5.90	0.80		0.80	0.15	1.42	
							Present Qty	68.08	Cum
							Quantity Limited for	54.76	Cum

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre measurement recorded on:

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 (Page No 158 Item no - 20.18 of KPWD SR 2018-19).								
	For CC Road								
	Mallikarjuna Swamy Temple Road	2	14.30	1.20		1.20	0.15	5.15	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	6.00	1.20		1.20	0.15	2.16	
		2	5.00	1.20		1.20	0.15	1.80	
		2	7.00	1.20		1.20	0.15	2.52	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	15.00	1.20		1.20	0.15	5.40	
		2	14.00	1.00		1.00	0.15	4.20	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	9.30	0.80		0.80	0.15	2.23	
	Parallel road to Shreeshakthi Bhavana								
		1	19.60	1.20	4.10	2.65	0.15	7.79	
	1st Cross Road								
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	15.00	0.80		0.80	0.15	3.60	
		2	5.90	0.80		0.80	0.15	1.42	
							Present Qty	**75.87**	**Cum**
							Quantity Limited for	**70.66**	**Cum**

9/10/2020

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Measurement recorded on:

Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
ASSRB M2/6/3 for Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.45cum, in foundation mechanically mixed, placed in foundation and compacted by vibrator including curing for 14 days including cost of all materials, labour, HOM curing, form works, watching and centering complete as per specifications. (P.No-222,I No-27.18 pwd 2018-								
For CC Road								
Mallikarjuna Swamy Temple Road	2	14.30	1.20		1.20	0.15	5.15	
	2	15.00	1.20		1.20	0.15	5.40	
	2	15.00	1.20		1.20	0.15	5.40	
	2	6.00	1.20		1.20	0.15	2.16	
	2	5.00	1.20		1.20	0.15	1.80	
	2	7.00	1.20		1.20	0.15	2.52	
	2	15.00	1.20		1.20	0.15	5.40	
	2	15.00	1.20		1.20	0.15	5.40	
	2	15.00	1.20		1.20	0.15	5.40	
	2	14.00	1.00		1.00	0.15	4.20	
	2	15.00	0.80		0.80	0.15	3.60	
	2	15.00	0.80		0.80	0.15	3.60	
	2	9.30	0.80		0.80	0.15	2.23	
Parallel road to Shreeshakthi Bhavana								
	1	19.60	1.50	4.10	2.80	0.15	8.23	
1st Cross Road								
	2	15.00	0.80		0.80	0.15	3.60	
	2	15.00	0.80		0.80	0.15	3.60	
	2	15.00	0.80		0.80	0.15	3.60	
	2	15.00	0.80		0.80	0.15	3.60	
	2	5.90	0.80		0.80	0.15	1.42	
						Present Qty	76.31	Cum
						Quantity Limited for	70.19	Cum

Assistant Engineer 12/10/2020
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Pre measurement recorded on:

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
12	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No-147 Item no - 19.64 of KPWD SR 2018-19)								
	For CC Road								
	Mallikarjuna Swamy Temple Road	2	14.30	1.20		1.20		34.32	
		2	15.00	1.20		1.20		36.00	
		2	15.00	1.20		1.20		36.00	
		2	6.00	1.20		1.20		14.40	
		2	5.00	1.20		1.20		12.00	
		2	7.00	1.20		1.20		16.80	
		2	15.00	1.20		1.20		36.00	
		2	15.00	1.20		1.20		36.00	
		2	15.00	1.20		1.20		36.00	
		2	14.00	1.00		1.00		28.00	
		2	15.00	0.80		0.80		24.00	
		2	15.00	0.80		0.80		24.00	
		2	9.30	0.80		0.80		14.88	
	Parallel road to Shreeshakthi Bhavana								
		1	19.60	1.20	4.10	2.65		51.94	
	1st Cross Road								
		2	15.00	0.80		0.80		24.00	
		2	15.00	0.80		0.80		24.00	
		2	15.00	0.80		0.80		24.00	
		2	15.00	0.80		0.80		24.00	
		2	5.90	0.80		0.80		9.44	
							Present Qty	**505.78**	**Sqm**
							Quantity Limited for	**467.93**	**Sqm**

Assistant Engineer 07/10/2020
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

Name of work: **Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division**

Measurement recorded on:

Sheet No	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
5	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 (P.No.144 & I.No.19.20 PWD 18-19)								
	Qty Same as Item No.2							219.42	Cum
							Present Qty	219.42	Cum

13/11/2020

Assistant Engineer
Ward No.13

219.00. 13/11

Asst. Executive Engineer,
Shettyhalli Sub Division

Scanned by CamScanner

of work: **Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division**

surement recorded on:

Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 & I.No.17.1 PWD 18-19)								
		Qty Same as Item No.9					54.76	
						Present Qty	54.76	Cum

13/11/2020

Assistant Engineer
Ward No.13

Asst. Executive Engineer,
Shettyhalli Sub Division

13/11

Scanned by CamScanner

ne of work:Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

urement recorded on:

Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
SRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 ase-1 : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
	Qty Same as per Item No.15						219.42	
	Qty Same as per Item No.16						54.76	
						Present Qty	274.18	t.km

13/11/2020

Assistant Engineer
Ward No.13

13/11

Asst. Executive Engineer
Shettyhalli Sub Division

Scanned by CamScanner

Name of work:Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Detailed measurement recorded on:

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	For CC Road								
	Mallikarjuna Swamy Temple Road	1	14.30	12.35	12.20	12.28	0.15	26.33	
		1	15.00	8.35	8.37	8.36	0.15	18.81	
		1	15.00	8.37	7.95	8.16	0.15	18.36	
		1	6.00	7.95	8.10	8.03	0.15	7.22	
		1	5.00	8.10	10.90	9.50	0.15	7.13	
		1	7.00	10.90	8.75	9.83	0.15	10.32	
		1	15.00	8.75	6.55	7.65	0.15	17.21	
		1	15.00	6.55	6.40	6.48	0.15	14.57	
		1	15.00	6.40	5.60	6.00	0.15	13.50	
		1	14.00	5.60	5.80	5.70	0.15	11.97	
		1	15.00	3.80	3.70	3.75	0.15	8.44	
		1	15.00	3.70	3.00	3.35	0.15	7.54	
		1	9.30	3.00	7.80	5.40	0.15	7.53	
	Parallel road to Shreeshakthi Bhavana								
	1st Cross Road	1	19.60	1.50	4.10	2.80	0.15	8.23	
		1	15.00	4.70	5.50	5.10	0.15	11.48	
		1	15.00	5.50	4.50	5.00	0.15	11.25	
		1	15.00	4.50	4.30	4.40	0.15	9.90	
		1	15.00	4.30	3.40	3.85	0.15	8.66	
		1	5.90	3.40	3.30	3.35	0.15	2.96	
							Present Qty	221.41	Cum
							Quantity Limited for	203.51	Cum

Assistant Engineer 13/11/2020
Ward No.13

Asst. Executive Engineer, 13/11
Shettyhalli Sub Division

Scanned by CamScanner